Isaac Cheung

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Education

University of British Columbia
Vancouver, BC

Bachelor of Science in Computer Science
September 2018 - May 2022

- **Major GPA: 4.14/4.33, Cumulative GPA: 3.95/4.33**
- **Graduated With Distinction, Dean's Honour List**

Experience

Google
Mountain View, CA

Software Engineer
August 2022 - Present

- Incoming software engineer working in the Google Cloud Privacy and Security product area.

Amazon Web Services (AWS)
Remote | Palo Alto, CA

Software Development Engineer Intern
February 2021 - August 2021

- Designed and implemented remote server execution support via VMware APIs. Done using Java and Golang.
- Integrated the AWS Schema Conversion Tool into existing service API workflow using Java and Docker, allowing the generation of recommendations for database migrations on the cloud.
- Leveraged numerous AWS services to streamline development, such as S3, DynamoDB, Lambda, API Gateway, Secrets Manager, Cloud Watch, and Cloud Formation.
- Led all testing for the features that I worked on, including unit tests, integration tests, and end-to-end tests.

Amazon Web Services (AWS)
Remote | Palo Alto, CA

Software Development Engineer Intern
May 2020 - September 2020

- Reduced the Server Migration Service's console load time latency by over 60% through various API optimizations, such as leveraging global secondary indexes in DynamoDB to improve filtering. Done using Java.
- Increased the region build automation's coverage from 60% to 90% and removed deprecated dependencies through a refactoring of the team's automated region build code using an internal framework in Ruby.

BGC Engineering
Vancouver, BC

Web & Mobile Development Intern
January 2020 – May 2020

- Added functionality to the map identify tool, enabling the tool to select polygon geometry based target objects using TypeScript.
- Solved numerous concurrency issues related to the web form logic used by 1000+ engineers daily.
- Created new React web form and web form components to support 1000+ engineers in the field daily, enabling them to electronically document inspections and remotely sync the data on various hazard sites.
- Decreased the Jira backlog by over 10% by fixing numerous bugs in both front and back end using TypeScript, C#, and SQL Server.

Projects

Distributed Chat System
Technologies used: Golang, Cobra, TUI
April 2022

- Developed a distributed chat system, connecting users and allowing them to communicate with each other using a client interface.
- Designed the system for fault tolerance using primary-backup replication, allowing it to survive server failures so long as at least 1 server remains operational.
- Implemented round robin style load balancing to fairly distribute clients across all servers.
- Created the user interface for client using the Cobra and TUI libraries.

Skills

Languages	Python, Java, C, C++, C#, Golang, TypeScript, JavaScript, Ruby, SQL, NoSQL, Haskell
Version Control Systems	Git / Github
Testing	JUnit, Mockito, PowerMock, Mocha
Other Technical Skills	HTML, CSS, React.js, Node.js, Express.js, Three.js, Swing, Cobra, AWS, Heroku, Docker